

UTKAL UNIVERSITY

+3 CBCS SYLLABUS

1ST SEMESTER

ECONOMICS

SL	CORE	PAPER	PAGE NO.
1	Core-1	INTRODUCTORY MICROECONOMICS	2
2	Core-2	MATHEMATICAL METHODS FOR ECONOMICS I	3
3	DSC-1.1	INTRODUCTORY MICROECONOMICS	4
4	GE-1	INDIAN ECONOMY-I	5

Core-1: INTRODUCTORY MICROECONOMICS

Module 1: Exploring the subject matter of Economics

The Ten Principles of Economics: How people make decisions; Working of the economy as a whole; Thinking Like an Economist: The economist as Scientist – The scientific method: Observation, Theory and more observation; Role of assumptions; Economic Models; The economist as a policy advisor; Why economists disagree; Graphs in Economics

Module 2: Supply and Demand: How Markets Work, Markets and Welfare

The market forces of demand and supply – Markets and competition; The demand curve – Market vs individual demand curve; Shifts in demand curve; The supply curve – Market vs individual supply curve; Shifts in supply curve; Equilibrium between supply and demand and changes there in; Price elasticity of demand and its determinants; Computing price elasticity of demand; Income and cross elasticity of demand; The price elasticity of supply and its determinants; Computing price elasticity of supply; Consumer Surplus and Producer Surplus; Market efficiency and market failure.

Module 3: The Households

The Budget Constraint; Preferences – representing preferences with indifference curves; Properties of indifference curves; Two extreme examples of indifference curves; Optimisation – Equilibrium; Change in equilibrium due to changes in income, changes in price; Income and substitution effect; Derivation of demand curve; Three applications – Demand for giffen goods, wages and labour supply, Interest rate and household saving.

Module 4: The Firm and Market Structures

Cost concepts; Production and costs; The various measures of cost – Fixed and variable cost, average and marginal cost; Cost curves and their shapes; Costs in the short run and in the long run; Economies and diseconomies of scale. Firms in competitive markets – What is a competitive market; Profit maximisation and the competitive firm's supply curve; The marginal cost curve and the firm's supply decision; Firm's short-run decision to shut down; Firm's long-run decision to exit or enter a market; The supply curve in a competitive market – short run and long run; Monopoly - Why monopolies arise and public policy towards monopolies

Module 5: The Input Markets

The demand for labour – The production function and the marginal product of labour; Value of the marginal product of labour and demand for labour; Shifts in labour demand curve; The supply of labour – the trade-off between work and leisure; Shifts in the labour supply curve; Equilibrium in the labour market; Other factors of production: Land and capital; Linkages among factors of production.

Readings:

1. Principles of Economics, Gregory N Mankiw, 6e Cengage Learning India Private Limited, New Delhi
2. William A McEachern and Simrit Kaur (2012): *Micro Econ: A South-Asian Perspective*, Cengage Learning India Private Limited, New Delhi.
3. Karl E. Case and Ray C. Fair (2007): *Principles of Economics*, 8th Edition, Pearson Education Inc.

Core-2: MATHEMATICAL METHODS FOR ECONOMICS I

Module I: Preliminaries

Sets and set operations; relations; functions and their properties; Number systems

Module II: Functions of one real variable

Types of functions- constant, polynomial, rational, exponential, logarithmic; Graphs and graphs of functions; Limit and continuity of functions; Limit theorems

Module III: Derivative of a function

Rate of change and derivative; Derivative and slope of a curve; Continuity and differentiability of a function; Rules of differentiation for a function of one variable; Application- Relationship between total, average and marginal functions

Module IV: Functions of two or more independent variables

Partial differentiation techniques; Geometric interpretation of partial derivatives; Partial derivatives in Economics; Elasticity of a function – demand and cost elasticity, cross and partial elasticity

Module V: Matrices and Determinants

Matrices: concept, types, matrix algebra, transpose, inverse, rank; Determinants: concept, properties, solving problems using properties of determinants, solution to a system of equations - Cramer's rule and matrix inversion method.

Readings:

1. K. Sydsaeter and P. J. Hammond (2002): *Mathematics for Economic Analysis*. Pearson Educational Asia
2. A. C. Chiang and K. Wainwright (2005): *Fundamental Methods of Mathematical Economics*, McGraw Hill International Edition.
3. T. Yamane (2012): *Mathematics for Economists*, Prentice-Hall of India

DSC-1: INTRODUCTORY MICROECONOMICS

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The Ten Principles of Economics: How people make decisions; Working of the economy as a whole; Thinking Like an Economist: The economist as Scientist – The scientific method: Observation, Theory and more observation; Role of assumptions; Economic Models; The economist as a policy advisor; Why economists disagree; Graphs in Economics

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2. William A McEachern and Simrit Kaur (2012): *Micro Econ: A South-Asian Perspective*, Cengage Learning India Private Limited, New Delhi.
3. Karl E. Case and Ray C. Fair (2007): *Principles of Economics*, 8th Edition, Pearson Education Inc.

GE-1: Indian Economy

Module I: Introduction to Indian Economy

Colonialism & British Rule: Exploitation and under-development in India; Basic features of India Economy; Indian Economy as a developing economy; Demographic trends in India - Size and growth of population, Occupational structure, Sex composition, Age structure and demographic dividend; Causes of population growth and population policy

Module II: Indian Agriculture

Role of agriculture in Indian Economy; Cause of low productivity, Green Revolution and Land Reforms, Agricultural Finance-Sources and Problems; Agricultural Marketing in India

Module III: Industrial Development in India

Role of Industrialisation in Indian Economy; Small Scale & Cottage Industries: Meaning, Role, Problems and Remedies; Industrial Policies of 1948, 1956, 1977 and 1991; Problems of Industrial Development in India; Industrial Sickness

Module IV: Service Sector in India

Growth & Contribution to GDP; Composition and relative importance of service sector; Factors determining growth of the sector; ICT and IT – Spread and Policy; Sustainability of services led growth

Module V: Current Challenges facing Indian Economy

Unemployment – Meaning; important employment Generation programmes, MGNREGS; Inequality in income distribution-Causes thereof; Government policy to check its growth

Basic Readings:

1. Kapila U. *Indian economy since Independence*. Academic Foundation, New Delhi
2. Misra, S. K. and Puri V. K. *Indian Economy — Its Development Experience*. Himalaya Publishing House, Mumbai
3. Dutt R. and Sundharam K. P. M. *Indian Economy*. S. Chand & Company Ltd., New Delhi.
4. Agarawala, A. N. *Indian Economy*, New Age Publications, New Delhi
5. Panagariya, Arvind (2008): *India: the Emerging Giant*, Oxford University Press, New York
6. Acharya, S. and Mohan, R. (Eds.) (2010): *India's Economy: Performance and Challenges*, Oxford University Press, New Delhi.
7. Ahluwalia, I. J. and Little, I. M. D. (Eds.) (1998): *India's Economic Reforms and Development: Essays for Manmohan Singh*, Oxford University Press, New Delhi.

